

# BEST AVAILABLE COPY

DERWENT-ACC-NO: 2000-662701

DERWENT-WEEK: 200064

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TITLE: Method for remote radiation monitoring of environment  
polluted with radioactive and other harmful emissions

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PRIORITY-DATA: 1999RU-0108898 (April 21, 1999)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
RU 2147137 C1	March 27, 2000	N/A	000	G01S 013/02

## APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
RU 2147137C1	N/A	1999RU-0108898	April 21, 1999

INT-CL (IPC): G01S013/02, G01T001/167

ABSTRACTED-PUB-NO: RU 2147137C

## BASIC-ABSTRACT:

NOVELTY - Radar systems are used for probing plasma-forming area (plasmoids) associated with radiation and reflection factor  $i$  is measured by echo signal. Following parameters of atmosphere are also measured: relative humidity  $D$ , pressure  $P$ , temperature  $T$ , and air (convective) flow velocity  $U_0$ . Measurement results are used to find emission power  $P_l$  for monitored area polluted with radioactive emissions and surface density of activity  $q_0$  for same area from correlative equations. Radiation characteristics found in this way serve as indications of radiation situation in area being monitored.

USE - Radiation monitoring technique.

ADVANTAGE - Provision for remote radiation monitoring without mounting sensors  
in polluted environment. 2 cl, 4 dwg

CHOSEN-DRAWING: Dwg.1/1

TITLE-TERMS: METHOD REMOTE RADIATE MONITOR ENVIRONMENT  
POLLUTION RADIOACTIVE  
HARM EMIT

DERWENT-CLASS: K07 S03 W06

CPI-CODES: K07-A;

EPI-CODES: S03-E14N; S03-G02B; W06-A04A1; W06-A04H2;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2000-200678

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